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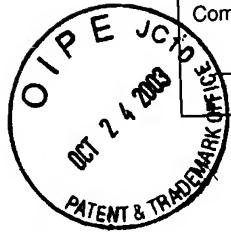
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Samuel J. DuBoff
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October 22, 2003

Date



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF
WANG ET AL.
APPLICATION NO: 10/621,139
FILED: JULY 16, 2003
FOR: ANTIVIRAL AZAINDOLE DERIVATIVES

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INFORMATION DISCLOSURE STATEMENT

Sir:

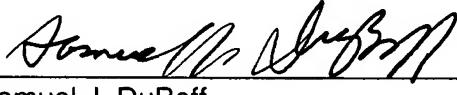
Applicants believe this paper is being filed before the mailing date of a first Office Action on the merits, and so under 37 C.F.R. §1.97(b)(3) no fees are required. If a fee is deemed to be required, the Commissioner is hereby authorized to charge such fee to Deposit Account No. 19-3880.

In accordance with 37 C.F.R. §1.56, applicants wish to call the Examiner's attention to the references cited on the attached form(s) PTO-1449.

The listed references are of record in parent Application No. 09/765,189 filed January 18, 2001, and copies are available therein. However, applicants are willing to send copies of any or all of these references at the Examiner's request.

The Examiner is requested to consider the foregoing information in relation to this application and indicate that each reference was considered by returning a copy of the initialed PTO 1449 form(s).

Respectfully submitted,



Samuel J. DuBoff
Attorney for Applicants
Reg. No. 25,969

Bristol-Myers Squibb Company
Patent Department
P.O. Box 4000
Princeton, NJ 08543-4000
(203) 677-7787

Date: 10/22/03

FORM PTO-1449
(REV. 7-85)U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)



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GY83A-DIV2
APPLICATION NO.
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	AA	5,413,999	5/9/95	J. P. Vacca, et al			
	AB	5,811,432	9/22/98	A. Marfat, et al			
	AC	5,124,327	6/23/92	W. J. Greenlee, et al			
	AD	5,424,329	6/13/95	D. H. Boschelli, et al			
	AE	5,023,265	6/11/91	M. H. Scherlock, et al			
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLASS	TRANSLATION YES <input type="checkbox"/> NO <input type="checkbox"/>
	AM	EP 0484071A2	5/6/92	European Patent Application			<input type="checkbox"/> <input type="checkbox"/>
	AN	WO 00/76521A1	12/21/00	PCT Application			<input type="checkbox"/> <input type="checkbox"/>
	AO	EP 0530907A1	3/10/93	European Patent Application			<input type="checkbox"/> <input type="checkbox"/>
	AP	WO 93/01181	1/21/93	PCT Application			<input type="checkbox"/> <input type="checkbox"/>
	AQ	WO 95/04742	2/16/95	PCT Application			<input type="checkbox"/> <input type="checkbox"/>
	AR	WO 96/11929	4/25/96	PCT Application			<input type="checkbox"/> <input type="checkbox"/>

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

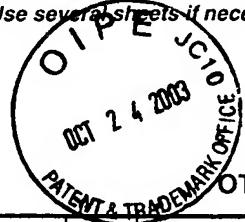
AS	H. Hotoda, "Small-Molecule Inhibitors of HIV-1 Entry Via Chemokine Receptors," DRUGS OF THE FUTURE, 24(12), pp. 1355-1362, 1999
AT	J. G. Sodroski, "HIV-1 Entry Inhibitors in the Side Pocket," CELL, 99, pp. 243-246, 1999
AU	W. S. Blair, et al, "HIV-1 Entry - An Expanding Portal for Drug Discovery," DRUG DISCOVERY TODAY, 5(5), pp. 183-194, 2000

EXAMINER	DATE CONSIDERED
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AV	B. A. Larder, et al, "Multiple Mutations in HIV-1 Reverse Transcriptase Confer High-Level Resistance to Zidovudine (AZT)," SCIENCE, 246, pp. 1155-1158, 1989
AW	R. M. Gulick, "Curent Antiretroviral Therapy: An Overview," QUALITY OF LIFE RESEARCH, 6, pp. 471-474, 1997
AX	D. R. Kuritzkes, "HIV Resistance to Current Therapies," ANTIVIRAL THERAPY, 2 (Supplement 3), pp. 61-67, 1997
AY	S. Morris-Jones, et al, "Antiretroviral Therapies in HIV-1 Infection," EXPERT OPINION ON INVESTIGATIONAL DRUGS, 6(8), pp. 1049-1061, 1997
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BA	J. P. Vacca, et al, "Clinically Effective HIV-1 Protease Inhibitors," DRUG DISCOVERY TODAY, 2(7), pp. 261-272, 1997
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BC	B. Berkhout, "HIV-1 Evolution Under Pressure of Protease Inhibitors: Climbing the Stairs of Viral Fitness," J. BIOMED. SCI., 6, pp. 298-305, 1999
BD	S. Ren, et al, "Development of HIV Protease Inhibitors: A Survey," PROGRESS IN DRUG RESEARCH, 51, pp. 1-31, 1998
BE	O. S. Pedersen, et al, "Non-Nucleoside Reverse Transcriptase Inhibitors: the NNRTI Boom," ANTIVIRAL CHEMISTRY & CHEMOTHERAPY, 10, pp. 285-314, 1999
BF	E. De Clercq, "The Role of Non-Nucleoside Reverse Transcriptase Inhibitors (NNRTIs) in the Therapy of HIV-1 Infection," ANTIVIRAL RESEARCH, 38, pp. 153-179, 1998
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BJ	S. D. Young, et al, "2-Heterocyclic Indole-3-Sulfones as Inhibitors of HIV-1 Reverse Transcriptase," BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, 5 (5), pp. 491-496, 1995
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BO	V. Levacher, et al, "Broadening in the Scope of NADH Models by Using Chiral and Non Chiral Pyrrolo [2,3-b]Pyridine Derivatives," TETRAHEDRON, 47 (3), pp. 429-440, 1991
BP	I. Mahadevan, et al, "Synthesis of Pyrrolopyridines (Azaindoles)," J. HETEROCYCLIC CHEM., 29 , pp. 359-367, 1992
BQ	D. Hands, et al, "Convenient Method for the Preparation of 5-, 6- and 7-Azaindoles and Their Derivatives," SYNTHESIS, pp. 877-882, 1996
BR	D. Dobson, et al, "The Synthesis of 7-Alkoxyindoles," SYNTHETIC COMMUNICATIONS, 21 (5), pp. 611-617, 1991
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BW	M. Desai, et al, "A Convenient Preparation of 1-Aroylpiperazines," ORGANIC PREPARATIONS AND PROCEDURES INT., 8(2), pp. 85-86, 1976
BX	M. Adamczyk, et al, "Synthesis of Procainamide Metabolites N-Acetyl Desethylprocainamide and Desethylprocainamide," ORGANIC PREPARATIONS AND PROCEDURES INT., 28(4), pp. 470-474, 1996
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CB	N. Harada, et al, "Synthesis and Antitumor Activity of Quaternary Salts of 2-(2'-Oxoalkoxy)-9-Hydroxyellipticines," CHEM. PHARM. BULL., 45(1), pp. 134-137, 1997
CC	I. Antonini, et al, "Synthesis of 4-Amino-1- β -D-Ribofuranosyl-1H-Pyrrolo[2,3-b]Pyridine (1-Deazatubercidin) as a Potential Antitumor Agent," J. MED. CHEM., 25, pp. 1258-1261, 1982
CD	S. W. Schneller, et al, J. ORG. CHEM., 45, pp. 4045-4048, 1980
CE	M. Wozniak, et al, "Amination of 4-Nitroquinoline with Liquid Methylamine/Potassium Permanganate," CHEMISTRY OF HETEROCYCLIC COMPOUNDS, 34(7), pp. 837-840, 1998
CF	S. Shiotani, et al, J. HETEROCYCLIC. CHEM., 34, pp. 901-907, 1997
CG	S. Minakata, et al, "Regioselective Functionalization of 1H-Pyrrolo[2,3-b]Pyridine Via Its N-Oxide," SYNTHESIS, pp. 661-663, 1992
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CJ	M. Hayashida, et al, "Deoxygenative 2-Alkoxylation of Quinoline 1-Oxide," HETEROCYCLES, 31(7), pp. 1325-1331, 1990

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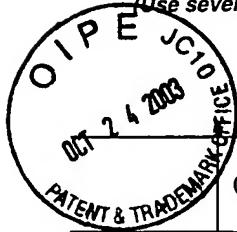
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Sheet 5 of 7

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CK	Y. Miura, et al, "Synthesis of 2,3-Fused Quinolines From 3-Substituted Quinoline 1-Oxides, Part 1.," HETEROCYCLES, 34(5), pp. 1055-1063, 1992
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CM	J. B. Regnouf de Vains, et al, "New Symmetric and Unsymmetric Polyfunctionalized 2,2'Bipyridines," J. HETEROCYCLIC CHEM., 31, pp. 1069-1077, 1994
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CO	V. E. Profft, et al, "Uber 4-Merkaptoverbindungendes 2-Methylpyridins," J. PRAKT. CHEM., 283(11), pp. 22-34, 1960 (German)
CP	R. Nesi, et al, "A New One Step Synthetic Approach to the Isoxazolo[4,5-b]Pyridine System," SYNTHETIC COMMUNICATIONS, 22(16), pp. 2349-2355, 1992
CQ	A. Walser, et al, "Quinazolines and 1,4-Benzodiazepines. 75. 7-Hydroxyaminobenzodiazepines and Derivatives," J. MED. CHEM., 19(12), pp. 1378-1381, 1976
CR	G. Barker, et al, "Benzopyrones. Part I. 6-Amino- and 6-Hydroxy-2-Substituted Chromones," J. CHEM. SOC., pp. 2230-2233, 1970
CS	N. R. Ayyangar, et al, "An Alternate Synthesis of 3,4-Diaminobenzophenone and of Mebendazole," ORG. PREP. PROCED. INT., 23(5), pp. 627-631, 1991
CT	I. Mahadevan, et al, "Ambident Heterocyclic Reactivity: The Alkylation of Pyrrolopyridines (Azaindoles, Diazaindenes)," TETRAHEDRON, 49(33), pp. 7337-7352, 1993
CU	T. Sakamoto, et al, "Palladium-Catalyzed Cyanation of Aryl and Heteroaryl Iodides with Copper(I)Cyanide," J. CHEM. SOC., PERKIN TRANS. 1, pp. 2323-2326, 1999
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CW	S. Yamaguchi, et al, "The Synthesis of Benzofuroquinolines. X. Some Benzofurol[3,2-c]Isoquinoline Derivatives," J. HETEROCYCLIC CHEM., 32, pp. 1517-1519, 1995
CX	D. J. Funhoff, et al, "Cyclo[d.e.d.e.e.d.e.e.e.]Decakisbenzene, a New Cycloarene," ANGEW CHEM., INT. ED. ENGL., 25(8), pp. 742-744, 1986

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CY	V. Klimesova, et al, "Potential Antifungal Agents. Synthesis and Activity of 2-Alkylthiopyridine-4-Carbothioamides," EUR. J. MED. CHEM., 31, pp. 389-395, 1996
CZ	A. R. Katritzky, et al, "Synthesis and Reactivity of 2,6-Diamino-4-Methyl-3-Pyridinecarbonitrile," J. HETEROCYCLIC CHEM., 32, pp. 979-984, 1995
DA	M. Miletin, et al, "Synthesis of Some Anilides of 2-Alkyl-4-Pyridinecarboxylic Acids and Their Photosynthesis-Inhibiting Activity," COLLECT. CZECH. CHEM. COMMUN., 62, pp. 672-678, 1997
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DE	T. Norrby, et al, "Regioselective Functionalization of 2,2'-Bipyridine and Transformations into Unsymmetric Ligands for Coordination Chemistry," ACTA CHEM. SCAND., 52, pp. 77-85, 1998
DF	Sitsun'van, Borisova, E. Ya, et al, ZH ORG KHIM., 31, pp. 1169-1172, 1995 (Russian)
DG	S. H. Reich, et al, "Structure-Based Design and Synthesis of Substituted 2-Butanols as Nonpeptidic Inhibitors of HIV Protease: Secondary Amide Series," J. MED. CHEM., 39, pp. 2781-2794, 1996
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DI	A. R. Oki, et al, "An Efficient Preparation of 4,4'-Dicarboxy-2,2'-Bipyridine," SYNTHETIC COMMUNICATIONS, 25(24), pp. 4093-4097, 1995
DJ	N. Garelli, et al, "Synthesis of New Amphiphilic Perfluoroalkylated Bipyridines," J. ORG. CHEM., 57, pp. 3046-3051, 1992
DK	J. Koyama, et al, "Diels-Alder Reaction of 1,2,3-Triazine with Aldehyde Enamine," HETEROCYCLES, 38(7), pp. 1595-1600, 1994
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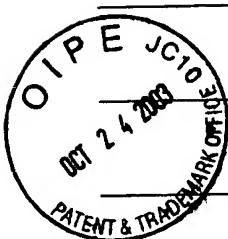
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DM	R. Levine, et al, "The Relative Reactivities of the Isomeric Methyl Pyridinecarboxylates in the Acylation of Certain Ketones. The Synthesis of β -Diketones Containing Pyridine Rings," J. AM. CHEM. SOC., 73, pp. 5614-5616, 1951
DN	M. Z. Hoemann, et al, "Solid-Phase Synthesis of Substituted Quinoline and Isoquinoline Derivatives Using Heterocyclic N-Oxide Chemistry," TETRAHEDRON LETTERS, 39, pp. 4749-4752, 1998
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DS	G. K. Chen, et al, J. VIROL., 68(2), pp. 654-660, 1994
DT	G. J. Clark et al, "Synthetic Uses of the Sequential Ring Positional Reactivity in Pyridin-3-ol and Derivatives," AUST. J. CHEM., 34, pp. 927-932, 1981
DU	H. J. Anderson, et al, "Pyrrole Chemistry, XXII. A "One-Pot" Synthesis of Some 4-Acylpyrrole-2-Carboaldehydes From Pyrrole," CAN. J. CHEM., 58, pp. 2527-2530, 1980
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